

RAD.



SMT. K. L. TIWARI COLLEGE OF ARCHITECTURE

Approved by Council of Architecture, New Delhi & DTE, Maharashtra State &
Affiliated to University of Mumbai | DTE Code No.: AR 3484



Report - Organise an Inter/Intra Institutional Business Plan Competition and Reward Best Innovations - Manage through YUKTI-NIR

Project Toll Booth

Venue : Studio 5, 7th floor, Smt. K. L. Tiwari College of Architecture, Thane

Speaker and instructor: Prof. Kirit Jani

Coordinator: Asst. Prof. Pranali Ohale

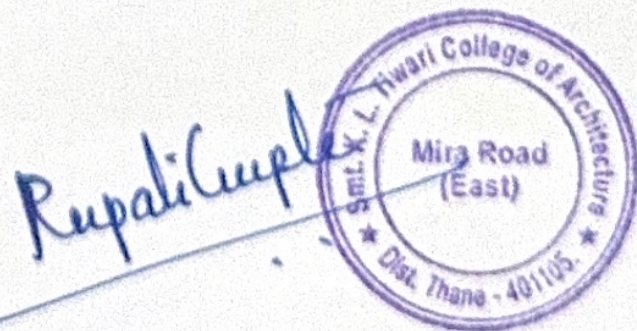
Date: 5.06.2023 - 10.06.2023

Time: 09:00 am to 3:00 pm

Best Innovations Rewarded on: 13.06.2023

Time: 10.00 am

Place: Library, 6th floor, Smt. K. L. Tiwari College of Architecture, Thane





PIONEERING EDUCATION
SINCE 1992

Smt.K.L.Tiwari College of Architecture

5th - 10th June, 2023

PROJECT TOLL BOOTH

DESIGNING FOR A
BETTER FUTURE

9 Am Onwards

For Registrations call : +91 7715017715

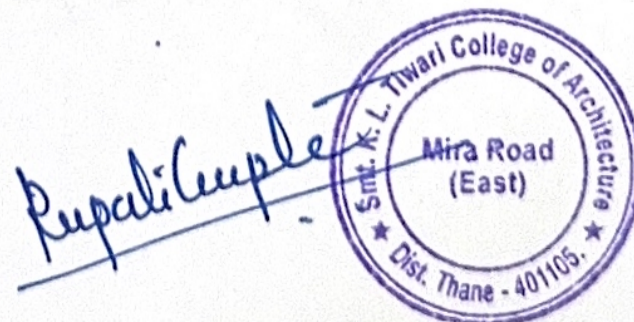
Venue

Smt.K.L.Tiwari College of Architecture
Shree L.R. Tiwari Educational Campus, Mira Road - East, 401107

Contact

8007916355

Google Map <https://maps.app.goo.gl/7SkkyR25VsGSWYBM8>



Learning Objective of the Session:

This event focuses on designing a modern and efficient toll booth that enhances the overall experience of motorists while ensuring smooth traffic flow and effective toll collection.

The toll booth should be designed with the following considerations in mind:

User Experience: Create a user-friendly and convenient experience for motorists passing through the toll booth. Consider factors such as ease of navigation, clear signage, and efficient transaction processes.

Traffic Flow: Design the toll booth layout and infrastructure to minimise traffic congestion and delays. Consider traffic volume, lane design, and queuing systems to ensure a smooth flow of vehicles.

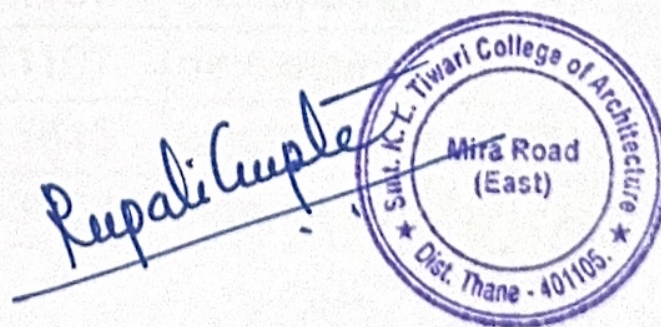
Safety and Security: Prioritise the safety and security of both motorists and toll booth staff. Include measures such as well-lit areas, surveillance cameras, and emergency response systems.

Sustainability: Integrate sustainable design principles to minimise the toll booth's environmental impact. Consider incorporating renewable energy sources, green building materials, and rainwater harvesting systems.

Scalability and Future Growth: Design the toll booth with scalability in mind, allowing for future expansion or adaptation to accommodate increasing traffic demands. Consider flexibility in lane configurations and technology upgrades.

Aesthetics and Integration: Create a visually appealing toll booth design that harmonises with its surroundings and contributes to the overall aesthetic of the transportation infrastructure. Consider architectural elements, landscaping, and branding opportunities.

The design should address these considerations while balancing functionality, efficiency, and aesthetics. Present your design concept through visual representations, such as sketches, renderings, or 3D models, along with a brief explanation of design choices.



Participant details:

Sr no	Student's Name	Phone Number	Email ID
1	Achary Anushka	9423993398	savithag2000@gmail.com
2	Ansari Arisha	8655404662	rahatmeraj6@gmail.com
3	Bhoir Kirti	7558604626	manishbhoir47@gmail.com
4	Chaudhari Aishwarya		
5	Chavan Omkar	9987069710	Suhaschavan710@gmail.com
6	Choudhary Shoaib	9856785222	shoaibchaudhary11@gmail.com
7	Dsilva Vian	9637749415	gretta@fcipl.com
8	Ghosh Monalisha	8655578831	ghoshranjan7@gmail.com
9	Gour Rashi	8552889580	sonugour383@gmail.com
10	Gupta Shivani	8850192204	poonamgupta986705@gmail.com
11	Khan Mohd. Ibad	9167599753	shahinakhan271978@gmail.com
12	Khan Naumaan	8108438993	anjumara1676@gmail.com
13	Khan Saad	8788732378	nk7627115@gmail.com
14	Khan Umer	9969511456	daulatkhan1981@gmail.com
15	Khanhane Shailesh	9021958907	shaileshss@gmail.com
16	Parmar Karan	9930905090	karanparmar491@gmail.com
17	Qureshi Hasnain	8286569786	asifkureshi404@gmail.com
18	Rai Kartikeya	8097677714	kartikchhayarai@gmail.com
19	Sawant Ayush	9004350518	nehasawant834@gmail.com
20	Sayed Aalmin	9167111752	sayeed.irfan.h@gmail.com
21	Shaikh Mohd.Nabeel	9820533825	drnusratshaikh73@gmail.com
22	Shaikh Muskan	8850171247	shainashaikh7857@gmail.com
23	Sheikh Suzanne	7028744692	hennasheikh06@gmail.com
24	Siddiqui Raina	9372407003	essamsiddiqui72@gmail.com
25	Siddoqiui Maliha	9833499252	deebasiddiqui686@gmail.com
26	Singh Aakash	7045653532	singhshalu5060@gmail.com
27	Singh Neha	7021671107	dineshsingh702167@gmail.com
28	Singh Rohan	7021671107	dineshsingh702167@gmail.com
29	Suthar Rahul	6356565645	kamlasuthar7875034@gmail.com-
30	Verma Gaurav	7045653532	singhshalu5060@gmail.com

Rupali Gupta

Smt. K. L. Tiwari College of Architecture
Mira Road (East)
Dist. Thane - 401105

Photos:



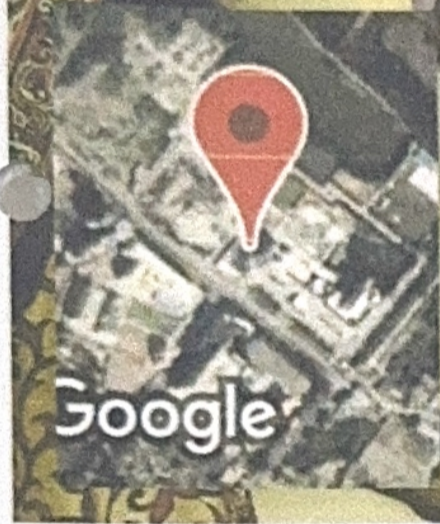
Rupali Gupta





GPS Map Camera

Mira Bhayandar, Maharashtra, India
Off, Kanakia Rd, Kanakia Park, Mira Road East, Mira Bhayandar,
Maharashtra 401107, India
Lat 19.300464°
Long 72.877209°
13/06/23 10:20 AM GMT +05:30



GPS Map Camera

Mira Bhayandar, Maharashtra, India
Off, Kanakia Rd, Kanakia Park, Mira Road East, Mira Bhayandar,
Maharashtra 401107, India
Lat 19.300464°
Long 72.877209°
13/06/23 10:19 AM GMT +05:30



Rupali Gupta
Smt. K. L. Tiwari College of Architecture
Mira Road (East)
Dist. Thane - 401105



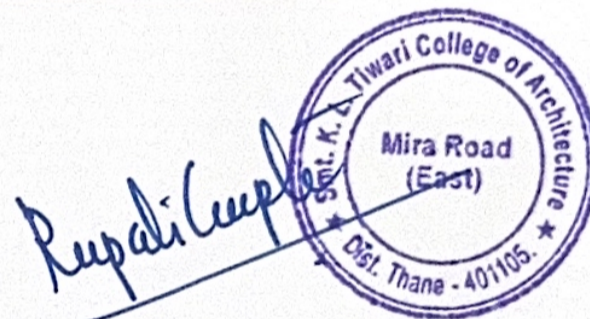
Learning Outcome of Workshop:

Understanding User-Centred Design: Participants gained an understanding of the importance of considering user needs and preferences when designing a toll booth. They learnt techniques for conducting user research and incorporating user-centred design principles into their design process.

Applying Traffic Principles: Participants were able to understand how to analyse traffic patterns, optimise lane configurations, and implement queuing systems to ensure smooth traffic flow and minimise congestion.

Ensuring Safety and Security: Participants learnt about safety and security considerations in toll booth design. They understood the importance of well-lit areas, surveillance systems, and emergency response mechanisms. They explored strategies for designing the toll booth layout to minimise potential safety hazards.

Incorporating Sustainable Design Practices: Participants gained knowledge of sustainable design principles and their application in toll booth design. They understood how to integrate renewable energy sources, green building materials, and water conservation systems into the toll booth design to minimise its environmental impact.

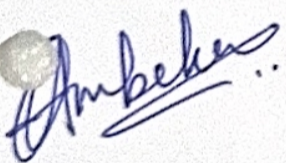


Considering Scalability and Future Growth: Participants learnt how to design toll booths with scalability in mind. They understood the importance of flexibility in lane configurations, technology upgrades, and space planning to accommodate future growth and changing traffic demands.

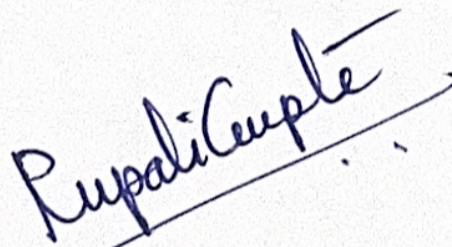
Developing Aesthetically Pleasing Designs: Participants explored the importance of aesthetics in toll booth design. They learnt how to create visually appealing toll booths that integrate with the surrounding environment and contribute to the overall aesthetic of the transportation infrastructure.

Effective Presentation Skills: Participants developed skills in presenting their toll booth design concept effectively. They learnt how to communicate their design choices through visual representations such as sketches, renderings, or 3D models. They will also learn how to articulate their design rationale and respond to questions and feedback from others.

By the end of the design challenge, participants acquired a comprehensive understanding of toll booth design principles and considerations. They were able to apply a user-centred design approach, incorporate technologies for efficiency, ensure safety and security, integrate sustainable practices, and present their design concepts effectively.



Prepared By:
Asst. Prof. Latika Ambekar
Convenor, IIC



Checked by:
Prof. Rupali H. Gupte
President, IIC



Stamp and Seal of College:

